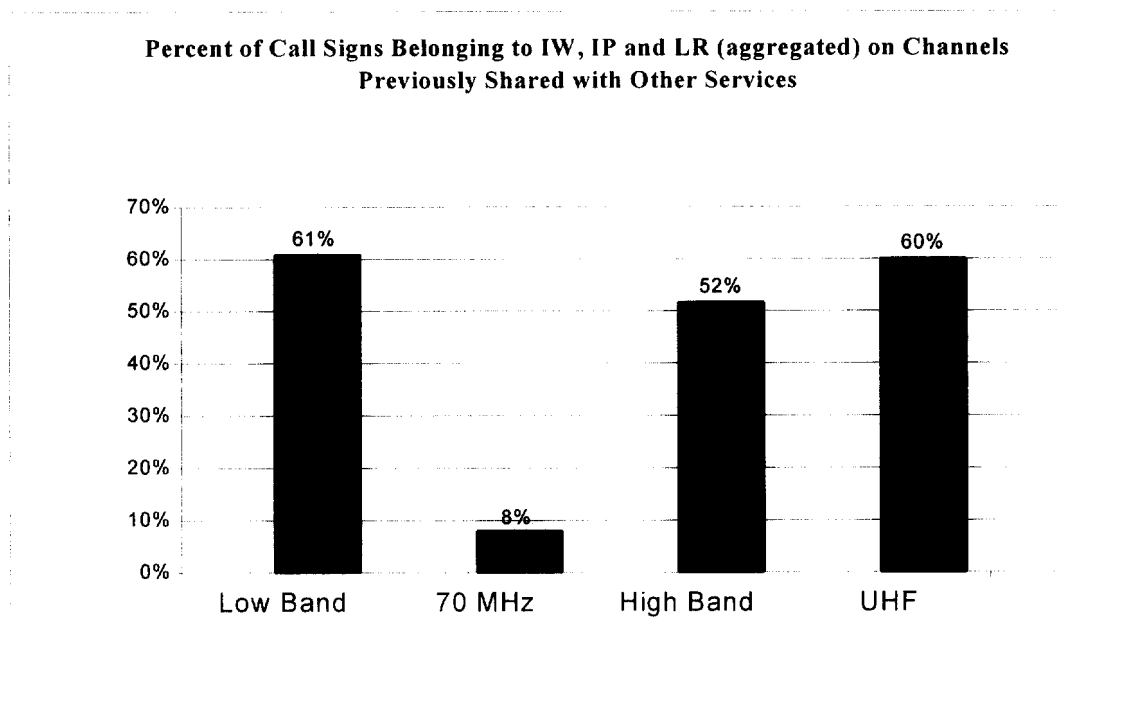


band below 800 MHz.²² The following chart shows the percentage of call signs licensed to power, petroleum or railroad users in the PLMR bands below 800 MHz.



The Critical Infrastructure Industries recommend that channels be reallocated based on the current usage pattern in each band. The proportion of call signs best reflects the actual and anticipated needs of users on these channels and minimizes disruption to either the Public Service or Industrial/Business Pools.²³ Therefore, the Critical Infrastructure Industries request reallocation to the new Public Service pool of:

²¹ Because primary licensing on “offset” channels has just begun, the Critical Infrastructure Industries based their analysis on licenses for existing wide-band channels.

²² Appendix B includes a list of the “shared” channels showing the number of call signs per category of licensee. The “Total” column shows the total number of call signs, while the column labeled “IW, IP, LR” shows the total number of call signs for licenses in the Power, Petroleum and Railroad radio services, respectively.

61% of the shared low band frequencies, 8% of the shared frequencies in the 70 MHz band, 52% of the shared frequencies in the VHF high band and 61% of the shared UHF frequencies. It must be emphasized that these figures relate only to the channels that, by FCC rule, were shared with other specific services prior to pool consolidation.

	Low Band ²⁴	70 MHz ²⁴	High Band ²⁴	UHF ²⁴
Total Number of Call Signs belonging to IW, IP and LR (aggregated)	4214	1062	16668	14576
Total Number of Call Signs belonging to All Services (including IW, IP and LR)	6932	13390	32310	24321
Percent of Total Call Signs of IW, IP and LR Licensees (aggregated)	61%	8%	52%	60%
Total Frequencies in Band Shared with Other Services	62	98	91	130
Number of Frequencies to be Allocated to New Public Service Pool (percentage of IW, IP, LR call signs multiplied by total number of frequencies)	38	8	47	80 ²⁵

To determine the specific channels to be reallocated, the Critical Infrastructure Industries analyzed the FCC's licensing records to determine, again based on the number of call signs, which frequencies were most heavily licensed to the power, petroleum and railroad services. Section 90.55 of the proposed amended rules (found in Appendix A to

²³ The reliability of call signs as an indicator of relative usage is supported by an analysis of the number of transmitters or mobiles in each band. Looking at the proportion of IW, IP and LR transmitters or mobiles yields similar results to that attained by an analysis of call signs.

²⁴ Note that frequencies examined are those that were shared (non-exclusive with respect to service) by Power, Petroleum or Railroad Services. The total number of frequencies to be reallocated for the new pool would include these shared frequencies plus those channels used exclusively by each of the three Critical Infrastructure Industries. All "Service" criteria examined reflect "Pre-Refarming" designations.

²⁵ A strict application of the percentages would result in 78 channels being reallocated to the new Public Service Pool. However, because channels in the UHF band are paired, two additional channels must be reallocated to complete the channel pairings. One channel is necessary to complete an LR-exclusive channel pair, while the other channel is needed to complete an IP/IW channel pair.

this *Petition*) includes a listing of individual channels that have been identified for reallocation to the Public Service Pool.²⁶

D. Determination of Pending Applications

As noted, under the rules adopted by the FCC in the *SR&O*, entities in the Industrial/Business Pool are eligible to operate on any of the channels in the pool, although all applications for use of exclusive railroad, power and petroleum channels must be made through the frequency coordinator for these services. Under the Public Service Pool proposal described herein, however, no one outside the Public Service Pool would be able to gain access to the channels designated for Public Service eligibles. Since the rules adopted in the *SR&O* became effective, an increasing number of coordination requests are being filed by other Industrial/Business Pool eligibles to use railroad, power and petroleum channels ("Public Service Channels"). Because these applications were filed under the current rules, the Critical Infrastructure Industries believe that those entities already granted use of Public Service Channels should be allowed to continue their use of these channels if the Commission adopts the proposal described herein and creates a restricted Public Service Pool.

However, in order to limit the number of non-eligible applicants for use of Public Service Channels, the Critical Infrastructure Industries request that the Commission specify that only those applications for use of Public Service Channels filed as of the date

²⁶ In addition to the channels listed in proposed Section 90.55, the Critical Infrastructure Industries also recommend that interstitial channels associated with the new Public Service Pool channels be available only to Public Service Pool eligibles.

of filing of this petition be considered for assignment by the respective Public Service coordinators.²⁷ Because of the special protections afforded licensees in the proposed Public Service Pool, such a cutoff is necessary to prevent unnecessary encroachment by industrial users on Public Service frequencies. In addition, this cut-off will prevent entities that may be subject to auctions from applying for channels which are not subject to auction in accordance with the terms of the 97 Budget Act.²⁸

E. The Commission Should Establish Protected Service Contours for the Existing Systems of Licensees in the Public Service Radio Pool

As explained above, the creation of a new Public Service Radio Pool would -- consistent with the 97 Budget Act -- facilitate the efforts of petroleum, power and railroad entities to license and effectively operate private mobile radio systems that provide important public safety functions. This measure alone, however, would not adequately protect the existing systems of Public Service eligibles, many of which operate on frequencies that would remain assigned to the Industrial/Business Pool and, as a result, would continue to be available to a wide range of users and subject to coordination by any recognized frequency coordinator. Accordingly, there are circumstances in which any business entity could become licensed in close proximity to an incumbent system of a

²⁷ In no event should licenses for Public Service Channels be granted to entities ineligible for the Public Service Pool after the effective date of these rules.

²⁸ On June 26, 1998, UTC and API filed an *Emergency Request for Limited Licensing Freeze* to recommend that the FCC freeze the acceptance of applications for any channel that, prior to the implementation of the FCC's *Second Report and Order* in PR Docket 92-235, was allocated for use on a shared basis by Power (IW) and/or Petroleum (IP) Radio Services, and for any channel less than 15 kHz from such channels. UTC and API believe that this freeze will prevent the increasing incidents of harmful interference to incumbent petroleum and power licensees, and will prevent the hoarding of these channels by Industrial/Business licensees in anticipation of FCC action on this *Petition*.

Public Service eligible without the approval of the coordinator responsible for and most knowledgeable of the operations of the Public Service licensee.

To reduce the risk of interference to or encroachment upon the incumbent systems of Public Service licensees, the FCC should implement protected service contours for all such incumbent systems. This process could be implemented through the use of RF computer modeling techniques. In particular, the concurrence of the appropriate Public Service Radio Pool coordinator would be required for the grant of any application that seeks authority to share any channel currently licensed to a Public Service eligible where the applicant's system would impinge on the existing system in excess of the following values:

For UHF systems operating in the band 450-470 MHz, an applicant's 21 dBu contour may not impinge upon the 39 dBu contour of the existing system;

For VHF systems employing channels in the 150-174 MHz band, an applicant's 19 dBu contour may not encroach upon the 37 dBu contour of the existing system; and

For systems operating on channels below 50 MHz, an applicant's 12 dBu contour may not encroach upon the 30 dBu contour of an existing system.²⁹

Only by establishing such protected service contours can the FCC guarantee the ongoing viability of existing petroleum, power and railroad systems responsible for facilitating communications that prevent or reduce the likelihood of serious accidents and enhance emergency response capabilities. This action would be entirely consistent not

²⁹ See Appendix A, Proposed Amendments to Part 90, Section 90.175(b)).

only with the 97 Budget Act, but also with the FCC's goal of protecting public safety-related communications facilities such as those operated by Railroad, Power and Petroleum licensees. Recognizing that these licensees employ private radio systems "as a critical tool for responding to emergencies that could impact hundreds or even thousands of people," the FCC has stated that "maintaining the integrity of the spectrum used for such public safety purposes is extremely important."³⁰ This integrity can best be maintained through the creation of a Public Service Radio Pool for the licensing of new systems and -- as a complementary measure -- the adoption of protected service contours to protect the existing systems of the Critical Infrastructure Industries.

Conclusion

The 97 Budget Act clearly demonstrates Congress's intent to provide for the protection and growth of power, petroleum and railroad communications. The FCC should act in accordance with this intent by enacting new protections for these services in the refarming of the PLMR bands below 800 MHz. Specifically, the FCC should establish a new Public Service Pool, comprised of the power, petroleum and railroad services, separate and distinct from the Industrial/Business Pool. The FCC should retain the existing frequency coordination protection afforded these entities, and allocate to the new Public Service Pool those channels that are most heavily used by Public Service Pool eligibles. Finally, the FCC should protect the existing systems of Public Service entities by adopting protected service contours for these systems.

³⁰ *SR&O* at ¶ 41.

WHEREFORE, THE PREMISES CONSIDERED, the Critical Infrastructure Industries request the Federal Communications Commission to take action in accordance with the views expressed above.

Respectfully submitted,

UTC, The Telecommunications Association

By:



Jeffrey L. Sheldon

Thomas Goode

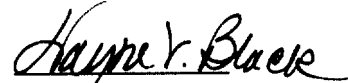
1140 Connecticut Avenue, N.W., Suite 1140

Washington, D.C. 20036

(202) 872-0030

American Petroleum Institute

By:



Wayne V. Black

Nicole Donath

Keller and Heckman, LLP

1001 G Street, NW

Washington, D.C. 20001

(202) 434-4293

Its Attorneys

Association of American Railroads

By:

Louis P. Warchot, Esq.

Senior Vice President – Law and General
Counsel

50 F Street, NW

Washington, D.C. 20001

(202) 639-2502

Dated: **August 14, 1998**

WHEREFORE, THE PREMISES CONSIDERED, the Critical Infrastructure Industries request the Federal Communications Commission to take action in accordance with the views expressed above.

Respectfully submitted,

UTC, The Telecommunications Association


By: _____
Jeffrey L. Sheldon
Thomas Goode
1140 Connecticut Avenue, N.W., Suite 1140
Washington, D.C. 20036
(202) 872-0030

American Petroleum Institute

By: _____
Wayne V. Black
Nicole Donath
Keller and Heckman, LLP
1001 G Street, NW
Washington, D.C. 20001
(202) 434-4293

Its Attorneys

Association of American Railroads

By: 
Louis P. Warchot, Esq.
Senior Vice President – Law and General
Counsel
50 F Street, NW
Washington, D.C. 20001
(202) 639-2502

Dated: August 13, 1998

Appendix A Proposed Amendments To Part 90

Section 90.35 is amended by revising paragraphs (b) and (c):

§90.35 Industrial/Business Pool.

* * * * *

(b) Industrial/Business Pool frequencies.

(1) The following table indicates frequencies available for assignment to Industrial/Business Pool stations, together with the class of station(s) to which they are normally assigned, the specific assignment limitations which are explained in paragraph (b)¹ of this section, ~~and the certified frequency coordinator for each frequency:~~

~~(2)(i) The letter symbol(s) listed in the Coordinator column of the frequency table in paragraph (a)(3) of this section specifies the frequency coordinator(s) for each frequency as follows:~~

IP _____ Petroleum Coordinator
IW _____ Power Coordinator
LR _____ Railroad Coordinator

~~(ii) Frequencies without any coordinator specified~~ identified in the following frequency table may be coordinated by any coordinator certified in the Industrial/Business Pool.

(3) Frequencies.

Industrial/Business Pool Frequency Table

Frequency or Band	Class of Station(s)	Limitations
Kilohertz		
2000 to 25,000.....	Fixed, base or mobile.	1
Megahertz		
27.43.....	.....do.	
27.45.....	.....do.	
27.47.....	.....do.	
27.49.....	.....do.....	10
27.51.....	Mobile	11
27.53.....	.....do.....	11

¹ This is an error in the current rules: it should read "paragraph (c)".

Frequency or Band	Class of Station(s)	Limitations
29.71.....	Base or mobile	
29.73.....	.....do.	
29.75.....	.....do.	
29.77.....	.....do.	
29.79.....	.....do.	
30.58.....	.....do.	
30.60.....	.....do.	
30.62.....	.....do.	
30.64.....	.....do.	
30.68.....	.....do.	
30.72.....	.....do.	
30.76.....	.....do.	
30.80.....	.....do.	
30.84.....	Mobile.....	11, 12.
30.86.....	Base or mobile.	13
30.88.....	.....do.	
30.90.....	.....do.....	13
30.92.....	.....do.	
30.94.....	.....do.....	13
30.96.....	.....do.	
30.98.....	.....do.....	13
31.00.....	.....do.	
31.02.....	.....do.....	13
31.04.....	.....do.	
31.06.....	.....do.....	13
31.08.....	.....do.	
31.10.....	.....do.....	13
31.12.....	.....do.	
31.14.....	.....do.....	13
31.16.....	.....do.	
31.20.....	.....do.	
31.24.....	.....do.	
31.28.....	.....do.	
31.32.....	.....do.	
31.36.....	.....do.	
31.40.....	.....do.	
31.44.....	.....do.	
31.48.....	.....do.	
31.52.....	.....do.	
31.56.....	.....do.	
31.60.....	.....do.	
31.64.....	.....do.	
31.68.....	.....do.	
31.72.....	.....do.	
31.76.....	.....do.	
31.80.....	.....do.	
31.84.....	.....do.	
31.88.....	.....do.	

Frequency or Band	Class of Station(s)	Limitations
31.92.....	.....do.	
31.96.....	.....do.	
33.12.....	.....do.....	11
33.14.....	Mobile.....	11, 12.
33.16.....	Base or mobile	
33.40.....	Mobile.....	12, 14.
35.02.....	.....do.....	11, 12, 13.
35.04.....	Base or Mobile.	10
35.06.....	.....do.	
35.08.....	.....do.	
35.10.....	.....do.	
35.12.....	.....do.	
35.14.....	.....do.	
35.16.....	.....do.	
35.18.....	.....do.	
35.28.....	.....do.	
35.32.....	.....do.	
35.36.....	.....do.	
35.40.....	.....do.	
35.44.....	.....do.	
35.48.....	.....do.	
35.48.....	.....do.	
35.52.....	.....do.	
35.70.....	.....do.	
35.72.....	.....do.	
35.74.....	.....do.	
35.76.....	.....do.	
35.78.....	.....do.	
35.80.....	.....do.	
35.82.....	.....do.	
35.84.....	.....do.	
35.86.....	.....do.	
35.88.....	.....do.	
35.90.....	.....do.	
35.92.....	.....do.	
35.94.....	.....do.	
35.96.....	.....do.	
35.98.....	.....do.	
37.44.....	.....do.	
37.88.....	.....do.	
42.96.....	.....do.	
42.98.....	Mobile.....	11, 12.
43.00.....	Base or mobile	
43.02.....	.....do.	
43.04.....	.....do.....	17
43.06.....	.....do.	
43.08.....	.....do.	
43.10.....	.....do.	

Frequency or Band	Class of Station(s)	Limitations
43.12.....	.....do.	
43.14.....	.....do.	
43.16.....	Mobile.	
43.18.....	Base or mobile.	
43.28.....	.....do.	
43.32.....	.....do.	
43.36.....	.....do.	
43.40.....	.....do.	
43.44.....	.....do.	
43.48.....	.....do.	
43.52.....	.....do.	
43.70.....	.....do.	
43.72.....	.....do.....	18
43.74.....	.....do.....	18
43.76.....	.....do.	
43.78.....	.....do.	
43.80.....	.....do.	
43.82.....	.....do.....	18
43.84.....	.....do.....	18
43.86.....	.....do.....	19
43.88.....	.....do.....	19
43.90.....	.....do.....	19
43.92.....	.....do.....	18, 19.
43.94.....	.....do.....	19
43.96.....	.....do.....	18
43.98.....	.....do.	
44.00.....	.....do.	
44.02.....	.....do.	
44.04.....	.....do.	
44.06.....	.....do.	
44.08.....	.....do.	
44.10.....	.....do.....	20
44.12.....	.....do.....	18
44.14.....	.....do.	
44.16.....	.....do.....	18
44.18.....	.....do.....	18
44.20.....	.....do.....	18, 21.
44.22.....	.....do.	
44.24.....	.....do.	
44.26.....	.....do.	
44.28.....	.....do.	
44.30.....	.....do.	
44.32.....	.....do.....	18
44.34.....	.....do.	
44.36.....	.....do.....	18, 19.
44.38.....	.....do.....	19
44.40.....	.....do.....	18, 19.
44.42.....	.....do.....	19

Frequency or Band	Class of Station(s)	Limitations
44.44.....	.....do.....	19
44.46.....	.....do.....	18
44.48.....	.....do.....	18
44.50.....	.....do.....	
44.52.....	.....do.....	
44.54.....	.....do.....	
44.56.....	.....do.....	
44.58.....	.....do.....	
44.60.....	.....do.....	
47.44.....	.....do.....	
47.48.....	.....do.....	
47.52.....	.....do.....	
47.56.....	.....do.....	
47.60.....	.....do.....	
47.64.....	.....do.....	
47.68.....	.....do.....	
48.62.....	.....do.....	
48.66.....	.....do.....	
48.80.....	.....do.....	
48.84.....	.....do.....	18
48.88.....	.....do.....	
48.92.....	.....do.....	18
48.98.....	.....do.....	
49.08.....	.....do.....	18
49.12.....	.....do.....	
49.16.....	.....do.....	18
49.22.....	.....do.....	
49.24.....	.....do.....	18
49.26.....	.....do.....	18
49.28.....	.....do.....	18
49.30.....	.....do.....	
49.34.....	.....do.....	
49.36.....	.....do.....	18
49.42.....	.....do.....	
49.46.....	.....do.....	18
49.48.....	.....do.....	
49.52.....	.....do.....	
49.54.....	.....do.....	
49.56.....	.....do.....	
49.58.....	.....do.....	
72 to 76.....	Operational fixed.	22
72.02.....	Mobile.....	23, 24.
72.04.....	.....do.....	23, 24.
72.06.....	.....do.....	23, 24.
72.08.....	.....do.....	23, 24, 25.
72.10.....	.....do.....	23, 24.
72.12.....	.....do.....	23, 24.
72.14.....	.....do.....	23, 24.

Frequency or Band	Class of Station(s)	Limitations
72.16.....	.....do.....	23, 24, 25.
72.18.....	.....do.....	23, 24.
72.20.....	.....do.....	23, 24.
72.22.....	.....do.....	23, 24.
72.24.....	.....do.....	23, 24, 25.
72.26.....	.....do.....	23, 24.
72.28.....	.....do.....	23, 24.
72.30.....	.....do.....	23, 24.
72.32.....	.....do.....	23, 24, 25.
72.34.....	.....do.....	23, 24.
72.36.....	.....do.....	23, 24.
72.38.....	.....do.....	23, 24.
72.40.....	.....do.....	23, 24, 25.
72.44.....	.....do.....	13, 24, 77.
72.48.....	.....do.....	13, 24, 77.
72.52.....	.....do.....	13, 24, 77.
72.56.....	.....do.....	13, 24, 77.
72.60.....	.....do.....	13, 24, 77.
74.61.....	.....do.....	26, 77.
74.63.....	.....do.....	26, 77.
74.65.....	.....do.....	26, 77.
74.67.....	.....do.....	26, 77.
74.69.....	.....do.....	26, 77.
74.71.....	.....do.....	26, 77.
74.73.....	.....do.....	26, 77.
74.75.....	.....do.....	26, 77.
74.77.....	.....do.....	26, 77.
74.79.....	.....do.....	26, 77.
75.21.....	.....do.....	26, 77.
75.23.....	.....do.....	26, 77.
75.25.....	.....do.....	26, 77.
75.27.....	.....do.....	26, 77.
75.29.....	.....do.....	26, 77.
75.31.....	.....do.....	26, 77.
75.33.....	.....do.....	26, 77.
75.35.....	.....do.....	26, 77.
75.37.....	.....do.....	26, 77.
75.39.....	.....do.....	26, 77.
75.44.....	.....do.....	13, 24, 77.
75.48.....	.....do.....	13, 24, 77.
75.52.....	.....do.....	13, 24, 77.
75.56.....	.....do.....	13, 24, 77.
75.60.....	.....do.....	13, 24, 77.
150 to 170.....	Base or mobile.	27
150.815.....	.....do.....	
150.830.....	.....do.....	28, 29.
150.845.....	.....do.....	
150.8525.....	.....do.....	30

Frequency or Band	Class of Station(s)	Limitations
150.860.....	.....do.	
150.8675.....	.....do.....	30
150.875.....	.....do.	
150.8825.....	.....do.....	30
150.890.....	.....do.	
150.8975.....	.....do.....	30
150.905.....	.....do.	
150.920.....	.....do.....	28, 29.
150.935.....	.....do.	
150.9425.....	.....do.....	30
150.950.....	.....do.	
150.9575.....	.....do.....	30
150.965.....	.....do.	
150.9725.....	.....do.....	30
150.995.....	.....do.....	31
151.0025.....	.....do.....	30, 31.
151.010.....	.....do.....	31
151.0175.....	.....do.....	30, 31.
151.025.....	.....do.....	31
151.0325.....	.....do.....	30, 31.
151.040.....	.....do.....	31
151.0475.....	.....do.....	30, 31.
151.055.....	.....do.....	31
151.070.....	Base.....	28, 29, 31.
151.085.....	Base or mobile.	31
151.0925.....	.....do.....	30, 31.
151.100.....	.....do.....	31
151.1075.....	.....do.....	30, 31.
151.115.....	.....do.....	31
151.1225.....	.....do.....	30, 31.
151.130.....	.....do.....	31
151.1375.....	.....do.....	30, 31.
151.145.....	.....do.....	31
151.1525.....	.....do.....	30, 31.
151.160.....	.....do.....	31
151.1675.....	.....do.....	30, 31.
151.175.....	.....do.....	31
151.190.....	Base.....	28, 29, 31.
151.205.....	Base or mobile.	31
151.2125.....	.....do.....	30, 31.
151.220.....	.....do.....	31
151.2275.....	.....do.....	30, 31.
151.235.....	.....do.....	31
151.2425.....	.....do.....	30, 31.
151.250.....	.....do.....	31
151.2575.....	.....do.....	30, 31.
151.265.....	.....do.....	31
151.2725.....	.....do.....	30, 31.

Frequency or Band	Class of Station(s)	Limitations
151.280.....	.....do.....	31
151.2875.....	.....do.....	30, 31.
151.295.....	.....do.....	31
151.310.....	Base.....	28, 29, 31.
151.325.....	Base or mobile.	31
151.3325.....	.....do.....	30, 31.
151.340.....	.....do.....	31
151.3475.....	.....do.....	30, 31.
151.355.....	.....do.....	31
151.3625.....	.....do.....	30, 31.
151.370.....	.....do.....	31
151.3775.....	.....do.....	30, 31.
151.385.....	.....do.....	31
151.3925.....	.....do.....	30, 31.
151.400.....	.....do.....	31
151.4075.....	.....do.....	30, 31.
151.415.....	.....do.....	31
151.4225.....	.....do.....	30, 31.
151.430.....	.....do.....	31
151.4375.....	.....do.....	30, 31.
151.445.....	.....do.....	31
151.4525.....	.....do.....	30, 31.
151.460.....	.....do.....	31
151.4675.....	.....do.....	30, 31.
151.475.....	.....do.....	31
151.4825.....	.....do.....	30, 31.
151.490.....	.....do.....	32
151.4975.....	.....do.....	30, 32.
151.505.....	.....do.....	17
151.5125.....	.....do.....	17, 30.
151.520.....	.....do.....	
151.5275.....	.....do.....	30
151.535.....	.....do.....	
151.5425.....	.....do.....	30
151.550.....	.....do.....	
151.5575.....	.....do.....	30
151.565.....	.....do.....	
151.5725.....	.....do.....	30
151.580.....	.....do.....	
151.5875.....	.....do.....	30
151.595.....	.....do.....	
151.6025.....	.....do.....	30
151.625.....	.....do.....	10
151.640.....	.....do.....	10, 33.
151.6475.....	.....do.....	30
151.655.....	.....do.....	
151.6625.....	.....do.....	30
151.670.....	.....do.....	30

Frequency or Band	Class of Station(s)	Limitations
151.6775.....	.....do.....	30
151.685.....	.....do.	
151.700.....	.....do.....	10, 30, 34.
151.715.....	.....do.	
151.7225.....	.....do.....	30
151.730.....	.....do.....	30
151.7375.....	.....do.....	30
151.745.....	.....do.	
151.760.....	.....do.....	10, 30, 34.
151.775.....	.....do.	
151.7825.....	.....do.....	30
151.790.....	.....do.....	30
151.7975.....	.....do.....	30
151.805.....	.....do.	
151.820.....	Mobile.....	12, 14, 30, 35
151.835.....	Base or mobile.	
151.8425.....	.....do.....	30
151.850.....	.....do.....	30
151.8575.....	.....do.....	30
151.865.....	.....do.	
151.880.....	Mobile.....	12, 14, 30, 35.
151.895.....	Base or mobile.	
151.9025.....	.....do.....	30
151.910.....	.....do.....	30
151.9175.....	.....do.....	30
151.925.....	.....do.	
151.940.....	Mobile.....	12, 14, 30, 35.
151.955.....	Base or Mobile.	
151.9625.....	.....do.....	30
151.970.....	.....do.....	30
151.9775.....	.....do.....	30
151.985.....	.....do.	
152.2625.....	.....do.....	33
152.270.....	.....do.....	6
152.2775.....	.....do.....	6, 30.
152.285.....	.....do.....	6
152.2925.....	.....do.....	6, 30.
152.300.....	.....do.....	6
152.3075.....	.....do.....	6, 30.
152.315.....	.....do.....	6
152.3225.....	.....do.....	6, 30.
152.330.....	.....do.....	6
152.3375.....	.....do.....	6, 30.
152.345.....	.....do.....	6
152.3525.....	.....do.....	6, 30.
152.360.....	.....do.....	6
152.3675.....	.....do.....	6, 30.
152.375.....	.....do.....	6

Frequency or Band	Class of Station(s)	Limitations
152.3825.....	.....do.....	6, 30.
152.390.....	.....do.....	6
152.3975.....	.....do.....	6, 30.
152.405.....	.....do.....	6
152.4125.....	.....do.....	6, 30.
152.420.....	.....do.....	6
152.4275.....	.....do.....	6, 30.
152.435.....	.....do.....	6
152.4425.....	.....do.....	6, 30.
152.450.....	.....do.....	6
152.4575.....	.....do.....	6, 30.
152.465.....	.....do.....	6
152.480.....	.....do.....	29, 36, 37, 38.
152.8625.....	.....do.....	33
152.870.....	.....do.....	6
152.8775.....	.....do.....	30
152.885.....	.....do.....	
152.8925.....	.....do.....	30
152.900.....	.....do.....	
152.9075.....	.....do.....	30
152.915.....	.....do.....	
152.9225.....	.....do.....	30
152.930.....	.....do.....	
152.9375.....	.....do.....	30
152.945.....	.....do.....	
152.9525.....	.....do.....	30
152.960.....	.....do.....	
152.9675.....	.....do.....	30
152.975.....	.....do.....	
152.9825.....	.....do.....	30
152.990.....	.....do.....	
152.9975.....	.....do.....	30
153.005.....	.....do.....	
153.0125.....	.....do.....	30
153.020.....	.....do.....	
153.0275.....	.....do.....	30
153.035.....	.....do.....	
153.0425.....	.....do.....	30
153.050.....	.....do.....	4, 7.
153.0575.....	.....do.....	4, 7, 30.
153.065.....	.....do.....	
153.0725.....	.....do.....	30
153.080.....	.....do.....	4, 7.
153.0875.....	.....do.....	4, 7, 30.
153.095.....	.....do.....	
153.1025.....	.....do.....	30
153.110.....	.....do.....	4, 7.
153.1175.....	.....do.....	4, 7, 30.

Frequency or Band	Class of Station(s)	Limitations
153.125.....	.....do.	
153.1325.....	.....do.....	30
153.140.....	.....do.....	4, 7.
153.1475.....	.....do.....	4, 7, 30.
153.155.....	.....do.	
153.1625.....	.....do.....	30
153.170.....	.....do.....	4, 7.
153.1775.....	.....do.....	4, 7, 30.
153.185.....	.....do.	
153.1925.....	.....do.....	30
153.200.....	.....do.....	4, 7.
153.2075.....	.....do.....	4, 7, 30.
153.215.....	.....do.	
153.2225.....	.....do.....	30
153.2375.....	.....do.....	4, 7, 30.
153.245.....	.....do.	
153.2525.....	.....do.....	30
153.2675.....	.....do.....	4, 7, 30.
153.275.....	.....do.	
153.2825.....	.....do.....	30
153.2975.....	.....do.....	4, 7, 30.
153.305.....	.....do.	
153.3125.....	.....do.....	30
153.320.....	.....do.....	4, 7.
153.3275.....	.....do.....	4, 7, 30.
153.335.....	.....do.	
153.3425.....	.....do.....	30
153.350.....	.....do.....	4, 7.
153.3575.....	.....do.....	4, 7, 30.
153.365.....	.....do.	
153.3725.....	.....do.....	30
153.380.....	.....do.	
153.3875.....	.....do.....	30
153.395.....	.....do.	
153.4025.....	.....do.....	30
153.4325.....	.....do.....	30
153.4475.....	.....do.....	30
153.4625.....	.....do.....	30
153.4925.....	.....do.....	30
153.5075.....	.....do.....	30
153.515.....	.....do.	
153.5225.....	.....do.....	30
153.545.....	.....do.	
153.5525.....	.....do.....	30
153.5675.....	.....do.....	30
153.575.....	.....do.	
153.5825.....	.....do.....	30
153.6125.....	.....do.....	30

Frequency or Band	Class of Station(s)	Limitations
153.6275.....	.....do.....	30
153.6425.....	.....do.....	30
153.6725.....	.....do.....	30
153.6875.....	.....do.....	30
154.4825.....	.....do.....	30
154.490.....	.....do.....	30
154.4975.....	.....do.....	30
154.505.....	.....do.....	30
154.515.....	.....do.....	10, 30, 34.
154.5275.....	Mobile.....	10, 30, 34.
154.540.....	Base or mobile.	30
154.5475.....	.....do.....	33
154.555.....	.....do.....	11, 12, 35, 45.
154.570.....	Mobile.....	11, 12, 45, 47.
154.600.....	.....do.....	33
154.610.....	Base or mobile.	36, 37, 48.
154.625.....	.....do.....	30, 36, 37, 48.
154.640.....	Base.....	12
157.470.....	Base or mobile.	12, 30.
157.4775.....	.....do.....	12
157.485.....	.....do.....	12, 30.
157.4925.....	.....do.....	12
157.500.....	.....do.....	12, 30.
157.5075.....	.....do.....	12
157.515.....	.....do.....	12, 30.
157.5225.....	.....do.....	6
157.530.....	Mobile.....	6, 30.
157.5375.....	.....do.....	6
157.545.....	.....do.....	6, 30.
157.5525.....	.....do.....	6
157.560.....	Base or mobile.	6, 30.
157.5675.....	.....do.....	6
157.575.....	Mobile.....	6, 30.
157.5825.....	.....do.....	6
157.590.....	.....do.....	6, 30.
157.5975.....	.....do.....	6
157.605.....	.....do.....	6, 30.
157.6125.....	.....do.....	6
157.620.....	Base or mobile.	6, 30.
157.6275.....	.....do.....	6
157.635.....	Mobile.....	6, 30.
157.6425.....	.....do.....	6
157.650.....	.....do.....	6, 30.
157.6575.....	.....do.....	6
157.665.....	.....do.....	6, 30.
157.6725.....	.....do.....	6
157.680.....	.....do.....	6, 30.
157.6875.....	.....do.....	6

Frequency or Band	Class of Station(s)	Limitations
157.695.....	.....do.....	6
157.7025.....	.....do.....	6, 30.
157.710.....	.....do.....	6
157.7175.....	.....do.....	6, 30.
157.725.....	Base or mobile.	6
157.740.....	.....do.....	29, 36, 37, 38.
158.1525.....	.....do.....	30
158.1675.....	.....do.....	30
158.1825.....	.....do.....	30
158.2125.....	.....do.....	30
158.2275.....	.....do.....	30
158.2425.....	.....do.....	30
158.265.....	.....do.....	
158.2725.....	.....do.....	30
158.280.....	.....do.....	
158.2875.....	.....do.....	30
158.295.....	.....do.....	
158.3025.....	.....do.....	30
158.3175.....	.....do.....	4, 7, 30.
158.325.....	.....do.....	
158.3325.....	.....do.....	30
158.340.....	Mobile.	
158.3475.....	.....do.....	30
158.355.....	Base or mobile.	
158.3625.....	.....do.....	30
158.3775.....	.....do.....	4, 7, 30.
158.385.....	.....do.....	
158.3925.....	.....do.....	30
158.400.....	.....do.....	17
158.4075.....	.....do.....	17, 30.
158.415.....	.....do.....	
158.4225.....	.....do.....	30
158.4375.....	.....do.....	4, 7, 30.
158.460.....	.....do.....	29, 36, 37, 38, 48.
159.495.....	.....do.....	
159.5025.....	.....do.....	30
159.510.....	.....do.....	
159.5175.....	.....do.....	30
159.525.....	.....do.....	
159.5325.....	.....do.....	30
159.540.....	.....do.....	
159.5475.....	.....do.....	30
159.555.....	.....do.....	
159.5625.....	.....do.....	30
159.570.....	.....do.....	
159.5775.....	.....do.....	30
159.585.....	.....do.....	
159.5925.....	.....do.....	30

Frequency or Band	Class of Station(s)	Limitations
159.600.....	.....do.	
159.6075.....	.....do.....	30
159.615.....	.....do.	
159.6225.....	.....do.....	30
159.630.....	.....do.	
159.6375.....	.....do.....	30
159.645.....	.....do.	
159.6525.....	.....do.....	30
159.660.....	.....do.	
159.6675.....	.....do.....	30
159.675.....	.....do.	
159.6825.....	.....do.....	30
159.690.....	.....do.	
159.6975.....	.....do.....	30
159.705.....	.....do.	
159.7125.....	.....do.....	30
159.720.....	.....do.	
159.7275.....	.....do.....	30
159.735.....	.....do.	
159.7425.....	.....do.....	30
159.750.....	.....do.	
159.7575.....	.....do.....	30
159.765.....	.....do.	
159.7725.....	.....do.....	30
159.780.....	.....do.	
159.7875.....	.....do.....	30
159.795.....	.....do.	
159.8025.....	.....do.....	30
159.810.....	.....do.	
159.8175.....	.....do.....	30
159.825.....	.....do.	
159.8325.....	.....do.....	30
159.840.....	.....do.	
159.8475.....	.....do.....	30
159.855.....	.....do.	
159.8625.....	.....do.....	30
159.870.....	.....do.	
159.8775.....	.....do.....	30
159.885.....	.....do.	
159.8925.....	.....do.....	30
159.900.....	.....do.	
159.9075.....	.....do.....	30
159.915.....	.....do.	
159.9225.....	.....do.....	30
159.930.....	.....do.	
159.9375.....	.....do.....	30
159.945.....	.....do.	
159.9525.....	.....do.....	30

Frequency or Band	Class of Station(s)	Limitations
159.960.....	.....do.	
159.9675.....	.....do.....	30
159.975.....	.....do.	
159.9825.....	.....do.....	30
159.990.....	.....do.	
159.9975.....	.....do.....	30
160.005.....	.....do.	
160.0125.....	.....do.....	30
160.020.....	.....do.	
160.0275.....	.....do.....	30
160.035.....	.....do.	
160.0425.....	.....do.....	30
160.050.....	.....do.	
160.0575.....	.....do.....	30
160.065.....	.....do.	
160.0725.....	.....do.....	30
160.080.....	.....do.	
160.0875.....	.....do.....	30
160.095.....	.....do.	
160.1025.....	.....do.....	30
160.110.....	.....do.	
160.1175.....	.....do.....	30
160.125.....	.....do.	
160.1325.....	.....do.....	30
160.140.....	.....do.	
160.1475.....	.....do.....	30
160.155.....	.....do.	
160.1625.....	.....do.....	30
160.170.....	.....do.	
160.1775.....	.....do.....	30
160.185.....	.....do.	
160.1925.....	.....do.....	30
160.200.....	.....do.	
160.2075.....	.....do.....	30
169 to 172.....	Mobile, operational fixed.	53
173.225.....	Base or mobile.	
173.2625.....	Fixed or mobile	39, 40, 41, 42.
173.275.....	Base or mobile.	
173.325.....	.....do.....	
173.375.....	.....do.....	
173.390.....	Fixed or mobile	40, 41, 44, 54.
216 to 220.....	Base or mobile.	55
220 to 222.....	Base and mobile	56
406 to 413.....	Operational fixed.	53
450 to 470.....	Fixed, base, or mobile.	27, 57.
451.18125.....	Base or mobile.	33
451.19375.....	.....do.....	33
451.23125.....	.....do.....	33

Frequency or Band	Class of Station(s)	Limitations
451.24375.....	.....do.....	33
451.28125.....	.....do.....	33
451.29375.....	.....do.....	33
451.300.....	.....do.....	
451.30625.....	.....do.....	33
451.3125.....	.....do.....	30
451.31875.....	.....do.....	33
451.325.....	.....do.....	
451.33125.....	.....do.....	33
451.3375.....	.....do.....	30
451.34375.....	.....do.....	33
451.350.....	.....do.....	
451.35625.....	.....do.....	33
451.36875.....	.....do.....	33
451.38125.....	.....do.....	33
451.39375.....	.....do.....	33
451.400.....	.....do.....	
451.40625.....	.....do.....	33
451.41875.....	.....do.....	33
451.43125.....	.....do.....	33
451.44375.....	.....do.....	33
451.450.....	.....do.....	
451.45625.....	.....do.....	33
451.46875.....	.....do.....	33
451.48125.....	.....do.....	33
451.49375.....	.....do.....	33
451.500.....	.....do.....	
451.50625.....	.....do.....	33
451.51875.....	.....do.....	33
451.53125.....	.....do.....	33
451.54375.....	.....do.....	33
451.55625.....	.....do.....	4, 7, 33.
451.56875.....	.....do.....	4, 7, 33.
451.58125.....	.....do.....	33
451.59375.....	.....do.....	33
451.60625.....	.....do.....	4, 7, 33.
451.61875.....	.....do.....	4, 7, 33.
451.63125.....	.....do.....	33
451.64375.....	.....do.....	33
451.65625.....	.....do.....	4, 7, 33.
451.66875.....	.....do.....	4, 7, 33.
451.68125.....	.....do.....	33
451.69375.....	.....do.....	33
451.70625.....	.....do.....	4, 7, 33.
451.7125.....	.....do.....	4, 7, 30.
451.71875.....	.....do.....	4, 7, 33.
451.725.....	.....do.....	
451.73125.....	.....do.....	33

Frequency or Band	Class of Station(s)	Limitations
451.74375.....	.....do.....	33
451.75625.....	.....do.....	4, 7, 33.
451.7625.....	.....do.....	4, 7, 30.
451.76875.....	.....do.....	4, 7, 33.
451.775.....	.....do.....	
451.78125.....	.....do.....	33
451.7875.....	.....do.....	30
451.79375.....	.....do.....	33
451.800.....	Base, mobile, or operational fixed.	17, 58.
451.80625.....	.....do.....	17, 33, 58.
451.8125.....	.....do.....	17, 30, 58.
451.81875.....	.....do.....	17, 33, 58.
451.825.....	Base or mobile.	
451.83125.....	.....do.....	33
451.8375.....	.....do.....	30
451.84375.....	.....do.....	33
451.850.....	.....do.....	
451.85625.....	.....do.....	33
451.8625.....	.....do.....	30
451.86875.....	.....do.....	33
451.875.....	.....do.....	
451.88125.....	.....do.....	33
451.8875.....	.....do.....	30
451.89375.....	.....do.....	33
451.900.....	.....do.....	
451.90625.....	.....do.....	33
451.9125.....	.....do.....	30
451.91875.....	.....do.....	33
451.925.....	.....do.....	
451.93125.....	.....do.....	33
451.9375.....	.....do.....	30
451.94375.....	.....do.....	33
451.950.....	.....do.....	
451.95625.....	.....do.....	33
451.9625.....	.....do.....	30
451.96875.....	.....do.....	33
451.975.....	.....do.....	
451.98125.....	.....do.....	33
451.9875.....	.....do.....	30
451.99375.....	.....do.....	33
452.000.....	.....do.....	
452.00625.....	.....do.....	33
452.0125.....	.....do.....	30
452.01875.....	.....do.....	33
452.025.....	.....do.....	
452.03125.....	.....do.....	33
452.0375.....	.....do.....	30